

wt.% V, 1.5 – 2.5 wt.% W, 0.23 (exclusive) – 0.35 wt.% V, 0.02 (exclusive) – 0.03 wt.% Ti, 0.005 – 0.03 wt.% N, 0.001 – 0.015 wt.% B, and Fe and unavoidable impurities as the remainder.

23. A heat-resisting steel consisting essentially of 0.20 (exclusive) – 0.30 wt.% C, 0.05 – 0.30 wt.% Si, 0.01 – 0.7 wt.% Mn, 1.8 – 2.5 wt.% Cr, 0.23 (exclusive) – 0.35 wt.% V, 1.5 – 2.5 wt.% W, 0.005 – 0.03 wt.% N, 0.001 – 0.015 wt.% B, and Fe and unavoidable impurities as the remainder.

24. A heat-resisting steel consisting essentially of 0.15 – 0.30 wt.% C, 0.05 – 0.30 wt.% Si, 0.01 – 0.7 wt.% Mn, 1.8 – 2.5 wt.% Cr, 0.15 – 0.23 wt.% V, 1.5 – 2.5 wt.% W, 0.3 – 0.8 wt.% Mo, 0.01 – 0.02 wt.% Ti, 0.01 – 0.08 wt.% Nb, 0.005 – 0.03 wt.% N, 0.001 – 0.015 wt.% B, and Fe and unavoidable impurities as the remainder.

25. A heat-resisting steel consisting essentially of 0.15 – 0.30 wt.% C, 0.05 – 0.30 wt.% Si, 0.01 – 0.7 wt.% Mn, 1.8 – 2.5 wt.% Cr, 0.15 – 0.23 wt.% V, 1.5 – 2.5 wt.% W, 0.3 – 0.8 wt.% Mo, 0.01 – 0.02 wt.% Ti, 0.23 (exclusive) – 0.35 wt.% V, 0.02 (exclusive) – 0.03 wt.% Ti, 0.005 – 0.03 wt.% N, 0.001 – 0.015 wt.% B, and Fe and unavoidable impurities as the remainder.

26. A heat-resisting steel consisting essentially of 0.15 – 0.30 wt.% C, 0.05 – 0.30 wt.% Si, 0.01 – 0.7 wt.% Mn, 1.8 – 2.5 wt.% Cr, 0.23 (exclusive) – 0.35 wt.% V, 1.5 – 2.5 wt.% W, 0.3 – 0.8 wt. % Mo, 0.005 – 0.03 wt.% N, 0.001 – 0.015 wt.% B, and Fe and unavoidable impurities as the remainder.

27. The heat-resisting steel according to claim 23, which further comprises 0.1-3.0 wt.% Ni.

28. The heat-resisting steel according to claim 23, which further comprises 0.1-3.0 wt.% Cu.

29. A heat-resisting steel that is obtained by subjecting a heat-resisting steel according to claim 21 to a heat treatment comprising the steps of normalizing the heat-resisting steel, and oil-cooling the normalized heat-resisting steel to a temperature of 300° or lower.

Sub  
E8  
Centd.

30. A steam turbine rotor comprising the heat-resisting steel according to claim 21.

31. The heat-resisting steel according to claim 26, which further comprises 0.1-3.0 wt.% Ni.

32. The heat-resisting steel according to claim 26, which further comprises 0.1-3.0 wt.% Cu.

33. A heat-resisting steel that is obtained by subjecting a heat-resisting steel according to claim 24 to a heat treatment comprising the steps of normalizing the heat-resisting steel, and oil-cooling the normalized heat-resisting steel to a temperature of 300° or lower.

34. A steam turbine rotor comprising the heat-resisting steel according to claim 24.

35. The heat-resisting steel according to claim 21, wherein the content of C is 0.21-0.30 wt%.

36. The heat-resisting steel according to claim 22, wherein the content of C is 0.21-0.30 wt%.

37. The heat-resisting steel according to claim 23, wherein the content of C is 0.21-0.30 wt%.--